

September 28, 2009



U.S. Department  
of Transportation

East Building, PHH - 30  
1200 New Jersey Avenue, Southeast  
Washington, D.C. 20590

**Pipeline and Hazardous  
Materials Safety Administration**

DOT-SP 9408  
(TENTH REVISION)

EXPIRATION DATE: March 31, 2013
---------------------------------

(FOR RENEWAL, SEE 49 CFR § 107.109.)

1. GRANTEE: MEMC Pasadena, Inc.  
Pasadena, TX
2. PURPOSE AND LIMITATION:
  - a. This special permit authorizes the transportation in commerce of silicon tetrafluoride, Division 2.3, in DOT Specification 3AAX cylinders subject to the limitations specified herein. This special permit provides no relief from the Hazardous Materials Regulations (HMR) other than as specifically stated herein. The most recent revision supersedes all previous revisions.
  - b. The safety analyses performed in development of this special permit only considered the hazards and risks associated with transportation in commerce.
  - c. Party status will not be granted to this special permit.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR § 173.40(e) in that cylinders may not be manifold or connected, except as specified herein.
5. BASIS: This special permit is based on MEMC Pasadena, Incorporated's application dated May 15, 2009 and supplemental information dated July 17, July 31, and September 21, 2009, submitted in accordance with § 107.105 and the public proceeding thereon.

September 28, 2009

6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Hazardous Materials Description			
Proper Shipping Name	Hazard Class/ Division	Identification Number	Packing Group
Silicon tetrafluoride	2.3	UN1859	NA, Hazard Zone B

7. SAFETY CONTROL MEASURES:

a. PACKAGING - Packaging prescribed is a DOT Specification 3AAX cylinder manufactured from 4130-X alloy steel with minimum service pressure of 2200 psi. The cylinders are arranged in ISO modules as shown on FIBA Drawing Number SK-05-SiF4-MEMC-01 and may be manifolded in accordance with MEMC Drawing Number 02-20-92-00-ME-02 Rev. 8 on file with the Office of Hazardous Materials Special Permits and Approvals (OHMSPA). Additionally, 18 tube trailers (MEMC Trailer Numbers T901 through T904 and T906 through T919) containing DOT 3AAX specification cylinders that are designed for 2200 psi service pressure but marked 1600 psi are authorized provided all terms and provisions of this special permit are met. A listing of all 18 tube trailers including cylinders (tubes) has been submitted by MEMC and is on file with the OHMSPA. Additionally, the 18 trailers may be manifolded in accordance with MEMC Drawing Number ED-34809 Rev. 17 on file with the OHMSPA.

b. TESTING - Each cylinder must be reinspected and hydrostatically retested in accordance with §§ 180.205 and 180.209 as prescribed for DOT 3AAX cylinders.

c. OPERATIONAL CONTROLS - After filling the cylinders and prior to each shipment, MEMC must:

- (1) ensure that each cylinder's shut-off valve is in the closed position;
- (2) purge the manifold and related piping (pigtails) with nitrogen or another inert gas; and
- (3) ensure that the manifold master valve is closed and tightly plugged upon completion of purging.

8. SPECIAL PROVISIONS:

a. Each cylinders with a marked service pressure 1600 psi must:

(1) be ultrasonically thickness tested in accordance with the procedures described in the MEMC application on file with OHMSPA to verify and document that the cylinders wall thickness meets the requirements for a cylinder with a marked service pressure of 2200 psi prior to being used under this special permit;

(2) be ultrasonically thickness tested in accordance with the procedures described in the MEMC application on file with OHMSPA every six (6) months to verify and document that the cylinders wall thickness continues to meet the requirements for a cylinder with a marked service pressure of 2200 psi; and

(3) be removed from service within 24 months from the issuance of DOT-SP 9408 (10<sup>th</sup> Rev.).

b. A person who is not a holder of this special permit who receives a package covered by this special permit may reoffer it for transportation provided no modifications or changes are made to the package and it is reoffered for transportation in conformance with this special permit and the HMR.

c. A current copy of this special permit must be maintained at each facility where the package is offered or reoffered for transportation.

d. MARKING - Each cylinder must be marked "DOT-SP 9408".

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle.

10. MODAL REQUIREMENTS: A current copy of this special permit must be carried aboard each motor vehicle used to transport cylinders covered by this special permit.

11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this special permit and penalties prescribed by the Federal hazardous materials transportation law 49 U.S.C. Section 5101 et seq.:

- o All terms and conditions prescribed in this special permit and the Hazardous Materials Regulations, 49 CFR Parts 171-180.
- o Persons operating under the terms of this special permit must comply with the security plan requirement in Subpart I of Part 172 of the HMR, when applicable.
- o Registration required by § 107.601 et seq., when applicable.

Each "Hazmat employee", as defined in § 171.8, who performs a function subject to this special permit must receive training on the requirements and conditions of this special permit in addition to the training required by §§ 172.700 through 172.704.

No person may use or apply this special permit, including display of its number, when the special permit has expired or is otherwise no longer in effect.

Under Title VII of the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU) - "The Hazardous Materials Safety and Security Reauthorization Act of 2005" (Pub. L. 109-59), 119 Stat. 1144 (August 10, 2005), amended the Federal hazardous materials transportation law by changing the term "exemption" to "special permit" and authorizes a special permit to be granted up to two years for new special permits and up to four years for renewals.

## 12. REPORTING REQUIREMENTS:

- a. The ultrasonic wall-thickness measurement data, results, and additional technical information deemed pertinent to reduction of wall thickness described in paragraph 8.a. above must be submitted to OHMSPA annually.
- b. Shipments or operations conducted under this special permit are subject to the Hazardous Materials Incident Reporting requirements specified in 49 CFR §§ 171.15 - Immediate notice of certain hazardous materials incidents, and 171.16 - Detailed hazardous materials incident reports. In addition, the grantee(s) of this special permit must notify the Associate Administrator for Hazardous Materials

September 28, 2009

Safety, in writing, of any incident involving a package, shipment or operation conducted under terms of this special permit.

Issued in Washington, D.C.:

A handwritten signature in blue ink, appearing to read 'Theodore L. Willke', is written over a horizontal line.

for Theodore L. Willke  
Associate Administrator for Hazardous Materials Safety

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Pipeline and Hazardous Material Safety Administration, U.S. Department of Transportation, East Building PHH-30, 1200 New Jersey Avenue, Southeast, Washington, D.C. 20590.

Copies of this special permit may be obtained by accessing the Hazardous Materials Safety Homepage at [http://hazmat.dot.gov/sp\\_app/special\\_permits/spec\\_perm\\_index.htm](http://hazmat.dot.gov/sp_app/special_permits/spec_perm_index.htm) Photo reproductions and legible reductions of this special permit are permitted. Any alteration of this special permit is prohibited.

PO: MT